

Iron County Register.

BY ELI D. AKE.

OUR GOD, OUR COUNTRY, AND TRUTH.

TERMS—\$1.50 a Year, in Advance

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Address Register, Ironton, Missouri.

Official Directory.

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Farmington

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ern District of Missouri, Ironton.

C. D. YANCY, State Senator of 24th Dis-

trict, Piedmont.

JNO. L. THOMAS, Judge 26th Circuit, De

Soto.

WILL R. EDGAR, Prosecuting Attorney, Ir-

ronton.

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A. W. HOLLOWAY, P. Siding Judge, Arcadia.

DAVID H. PALMER, Bellevue, and Jos. G. CLAR-

son, Arcadia, Associate Judges.

FRANZ DINGER, Judge of Probate, Ironton.

W. A. FLETCHER, Sheriff & Collector, Ir-

ronton.

JOSEPH HUFF, Clerk Circuit Court, Ironton.

G. B. NALL, Clerk County Court, Ironton.

I. G. WHITWORTH, Treasurer, Ironton.

S. E. BURNORD, Assessor, Bellevue.

JACOB T. AKE, Public Administrator, Ir-

ronton.

J. GRAYDON, Coroner, Ironton.

F. C. MILLER, County School Commission-

er for Iron county, Missouri, Pilot Knob.

Circuit Court is held on the Fourth Mon-

day in October and April.

County Court convenes on the First Mon-

day of March, June, September and Decem-

ber.

Probate Court is held on the First Monday

in February, May, August and November.

Societies.

VALLEY LODGE, No. 1870, KNIGHTS

OF HONOR, meet alternate Wednesday

evenings, as follows: February 28th;

March 14th and 28th; April 11th and

25th; May 8th and 22d; June 5th and

19th; July 4th and 18th; August 1st

and 15th; September 12th and 26th; October 10th

and 24th; November 7th and 21st; December 5th and

19th.

W. W. NALL, Reporter.

EASTERN STAR LODGE, No. 62, A. F. & A.

M.—Regular Communication second Saturday in

every month. All visiting Brethren are cordially

invited to attend.

J. W. ARMS, W. M.

J. W. JACKSON, Sec. ary.

PILOT KNOB LODGE, No. 353, A. O. U. W.,

meets every Friday evening at 8 o'clock, at

Pilot Knob.

J. M. PEACE, W. M.

C. MILLER, Sec. r.

MIDIAN CHAPTER, No. 71, R. A., meets on

the first and third Thursdays of every month,

at 7 o'clock p. m., in the Masonic Hall, Ironton.

STAR OF THE WEST LODGE, No. 138, A. F. & A.

M., meets in Masonic Hall, Ironton, on the Satur-

day of or preceding the full moon in each month.

Masonic Lodge, No. 351, A. F. & A. M., meets

in the Masonic Hall, Cross Roads, on the Satur-

day of or preceding the full moon in each month.

IRON LODGE, No. 107, I. O. O. F., meets every

Monday evening, at its Hall, in Ironton.

PHOENIX LODGE, No. 330, I. O. O. F., meets every

Thursday evening, in Masonic Hall, Cross Roads.

Churches.

SERVICES in the Presbyterian Church every

Sabbath morning at 10 o'clock. Sabbath School

at 9 o'clock. Prayer Meeting every Wednesday

evening at 7 o'clock. A. W. WINTER, Pastor.

M. E. CHURCH, Cor. Reynolds and Mountain

Streets, Ironton. J. MALLATT, Pastor. Resi-

dence: Ironton. Services, Second and Fourth

Sundays in each month. Sabbath School every

Sunday morning, at 10 o'clock.

HIGH MASS and Sermon at Arcadia College

every Sunday at 8 o'clock. A. M. Vesper and

Benediction of the Blessed Sacrament at 5 o'clock

p. m. Mass and Sermon at Pilot Knob Catholic

Church at 10:30 o'clock a. m. Sunday School for

children at 1:30 o'clock p. m.

MRS. M. I. MOSER

HAS OPENED A

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At her residence on West Side of Main St.,

Ironton, Missouri.

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DR. A. S. PRINCE,

DENTIST,

Ironton, Missouri.

TENDERS his professional services to the peo-

ple of this section. He will be found at all

times at his office, and will give prompt attention

to the demands of his patrons.

J. W. EMERSON, W. R. EDGAR,

Late Judge 15th Circuit. Pros. Att'y of Iron Co.

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South Side Courthouse Square, IRONTON, MISSOURI.

A NEW ENTERPRISE SUCCESSFUL!

Southeast Missouri Still Up With the Times!

Of the recent improvements in this region, the leading work, *par excellence*, of the year is the completion of the new mill in Ironton by the Arcadia Valley Milling Co.; and as it is now in successful operation, the time has come to lay before our readers an account of the mill, its construction, operation, and the benefits that will accrue to Southeast Missouri from this new enterprise.

ITS ORIGIN.

It has long been evident that additional and better milling facilities were needed for converting the excellent wheat of Southeast Missouri into first-class merchantable flour that could be sold in any market, and early in the present year Judge J. G. Clarkson, Wm. Crommer and Jas. H. Clark, of this town, decided to form an association and supply the want by building in the Arcadia Valley a merchant mill of capacity commensurate with the necessities of the district. Judge Clarkson and Mr. Crommer have each successfully engaged in milling, and all the members of the association are men of ample capital, ability and energy to carry forward any work of the kind, and it was soon determined upon that the new mill should have all the appliances for flouring whose merits had been fully ascertained, and that it should be a

NEW PROCESS ROLLER MILL.

This decided, the company received bids from the leading mill furnishing houses of the West, and after careful investigation the contract for furnishing the machinery and placing it ready for flouring was awarded to Messrs. I. Q. Halteman & Co., of St. Louis, one of the oldest and best known houses of the West.

The location adopted, a few rods south of the Ironton railroad station, is well chosen, both on account of its nearness to the railroad, from which a spur track extends past the mill, and the bold spring in the lot, which constantly yields an abundance of pure water; and Dr. Edwin May, the former proprietor, promptly conveyed it to the new firm, at a very reasonable price, when he learned their purpose.

THE BUILDING

was erected by Louis Miller, of Arcadia, and the accuracy with which every detail of the plan was fulfilled only adds to his well-earned reputation for conscientious attention to his contracts. The main building is forty by thirty-six feet in size and consists of a basement, first or grinding, second or bolting and third or cleaning floors. The frame is of pine on a heavy wall of stone, and not a stick of timber or piece of lumber was used in the building that would not pass inspection as first-class. The height of the basement in the clear is nine feet; that of the main floor, twelve feet; of the second story, fourteen feet, and of the third story, twenty feet—giving ample room for any machinery required.

Every floor above the basement is laid with best dressed yellow pine, and the three floors have an aggregate area of four thousand three hundred and twenty square feet. Although this surface would seem more than ample for a sixty-barrel mill, the impression upon the mind of the visitor is that no space is wasted and there is very little to spare.

THE ENGINE

is of the plain slide-valve pattern of the most approved proportions and massive construction, with cylinder twelve by twenty inches, mounted on stone base, and is rated at fifty-horse power. The power is distributed to the various machinery of the mill by a main line-shaft extending through the basement lengthwise and a vertical shaft to the roof centre.

THE MACHINERY

of the mill proper is all of the latest and best patterns, and several of the rolls are built under patents issued this year.

THE GRINDING FLOOR.

The machines by which the wheat is ground are all on this floor, and consist of three double and one single set of rolls, made by Allis & Co., of Milwaukee, Wisconsin, under Gray's and Wagoner's patents, all noiseless in operation, and two pair of middlings burrs, and a pair of corn burrs is mounted on the same husk frame.

The rolls and burrs are so arranged that the wheat, after being thoroughly cleaned from dirt and foreign substances, is, after a short steaming process—to toughen the bran and make it easier detached from the inner part of the berry—conveyed between coarsely flut-

ed rollers, each running at a different speed, by which the grain is split, when it is elevated to a scalping reel covered with wire cloth, and in passing through it all the dirt remaining in the crease of the grain is removed. It then is spouted down between

THE SECOND ROLLS

of the same set, which have smaller corrugations and make what is known as the "second break," from which, after being again elevated, some flour is removed by a second and finer clothed scalping reel. The grain continues through a second double set of rolls and scalping reels, similar to the first but finer, by which the grain, instead of being rapidly pulverized and forced through burrs, which cut the bran and so mix it with the flour that it cannot be entirely removed, is gradually reduced to flour, all the bran loosened and flour made in each operation being carefully removed, so that no flour is subjected to any grinding after it is made. This constitutes the chief advantage over the old, or burr, system of grinding, as every miller and person who handles flour is aware of the fact that the two most common faults in flour are bran specks and overgrinding. As in

THE ROLLER SYSTEM

of grinding the rollers do not come together, the flour cannot be heated in the process. The other sets of rolls are for reducing middlings and cleaning bran. The middlings are separated into two grades and ground on two burrs adjusted to the respective grades, making the finest flour.

Beside the machinery on the grinding floor already mentioned, there is a packer, a hopper scale and trucks, scales for weighing flour, &c.; and in front of the row of rolls, extending nearly through the middle of the building, lengthwise, is a row of elevators, seventeen in number, which are required to carry the grain and flour up in the continuous processes.

THE SECOND FLOOR

is devoted exclusively to flour-dressing machinery and a few bins. In the center of the building stands the bolting chest, with six reels, which extends into the third story, and a large double purifier of the Geo. T. Smith pattern, made at Jackson, Michigan, by which the middlings, instead of being almost a waste product, as in the old flouring methods, is freed from the small bran and other impurities, and yields, on re-grinding, the finest and best flour.

We do not intend to give anything more than a sketch of the operations of the mill, and as the details of the working of the bolting apparatus are so complicated that books might be written on the subject, we pass to a description of

THE THIRD FLOOR.

Here we find a perplexing labyrinth of passages around the elevators, bolts and cleaning machinery, with barely room for a person to crowd his way through. On this floor, beside the bolt above referred to, is a four-reel scalping chest, and in the corner are two of the newly invented and improved centrifugal flour-dressing machines—one built by Holcomb & Heine, of Silver Creek, New York; the other from the factory of Willford & Northway, of Minneapolis, Minn. These reels are intended for separating and finishing flour from the last grinding. In another corner are a smutter and separator and wheat brush, made by Halteman & Co., for cleaning wheat. And the last available corner is occupied by a bran duster made by the Hughes Co., of Dayton, Ohio.

Beside the machinery on the various floors, there are the usual dust rooms, and flour and grain bins, and in the whole building every available foot of space is utilized.

In this mill the chief merit is the system, which is as near perfection as modern inventive genius will permit, and the extreme accuracy with which every detail is carried out. The entire mill is a

MASTERPIECE OF MECHANICAL SKILL and ingenuity and careful, accurate construction, the best possible evidence of the ability of the superintendent of the work, Mr. N. J. Campbell, whose constant and watchful attention not only secured the faithful completion of every requirement of the contract, but compelled an excellence of mechanical finish which pleasantly surprised the proprietors.

It may also be added, in passing, that Mr. Campbell made many friends here by his constant courtesy to all who visited the mill while in process of building, and his clear explanations of the various new processes used, and that the mechanics employed on the work were not only intelligent, but thorough gentlemen in their deport-

ment, a conspicuous feature of their conduct being their strictly temperate habits "away from home."

To return to the subject of this article, an account of the mill would be incomplete without a sketch of its proposed operation and advantages. By THE GRADUAL REDUCTION SYSTEM of milling the largest possible percentage of flour is obtained from the grain in the best possible condition, and thus the people are supplied with better flour for their money and the operation is profitable to the milling company.

This system of flour manufacture was first successfully carried on in Austro-Hungary, especially at Buda-Pesth, where immense roller mills have made for years a grade of flour which readily commanded the highest prices in the great English markets. In fact, their steady gain in competition with American flour soon convinced the American millers that they, too, must improve their methods or retire from the principal markets. This opened an era in American milling more prolific in invention and real improvement than was the whole previous mechanical history of our country; and although the end is not yet, for each month's record chronicles some new and valuable improvement in milling machinery, yet the Americans have already outstripped all competitors and are furnishing the world with the best machines for operation under the new system.

Among the first to see the advantages of the gradual reduction system of flouring in the United States was George C. Thilenius, of Cape Girardeau, Mo., who realized that the